

Scaled data based on original data using
LM-79-08 Approved Method: Electrical and Photometric Measurements of Solid-State
Lighting Products

Test Report Prepared for
Cooper Lighting Solutions
(formerly Eaton)

Brand: PORTFOLIO

Report Number: P247942

Luminaire Tested: **LD8B200D010 ER8B200927 8LBW0H**

Issue Date: 03/03/2020

Test Information

Test Method: LM-79-08
Report Number: P247942
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-1801-521-70)
Test Lab: INNOVATION CENTER(G1)
Issue Date: 03/03/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: PORTFOLIO
Catalog Number: LD8B200D010 ER8B200927 8LBW0H
Description: PORTFOLIO 8 INCH WIDE DISTRIBUTION 60 DEGREE CUTOFF RECESSED
DOWNLIGHT
97 CRI 2700 CCT WITH SEMI-SPECULAR CLEAR TRIM
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 16959.4 lumens
Efficiency: N/A
Efficacy: 75.9 lumens/watt
Spacing Criteria (0/90/45): 1.12 / 1.12 / 1.06
Luminous Opening: Point Source (0' x 0' x 0')
CIE Type: Direct

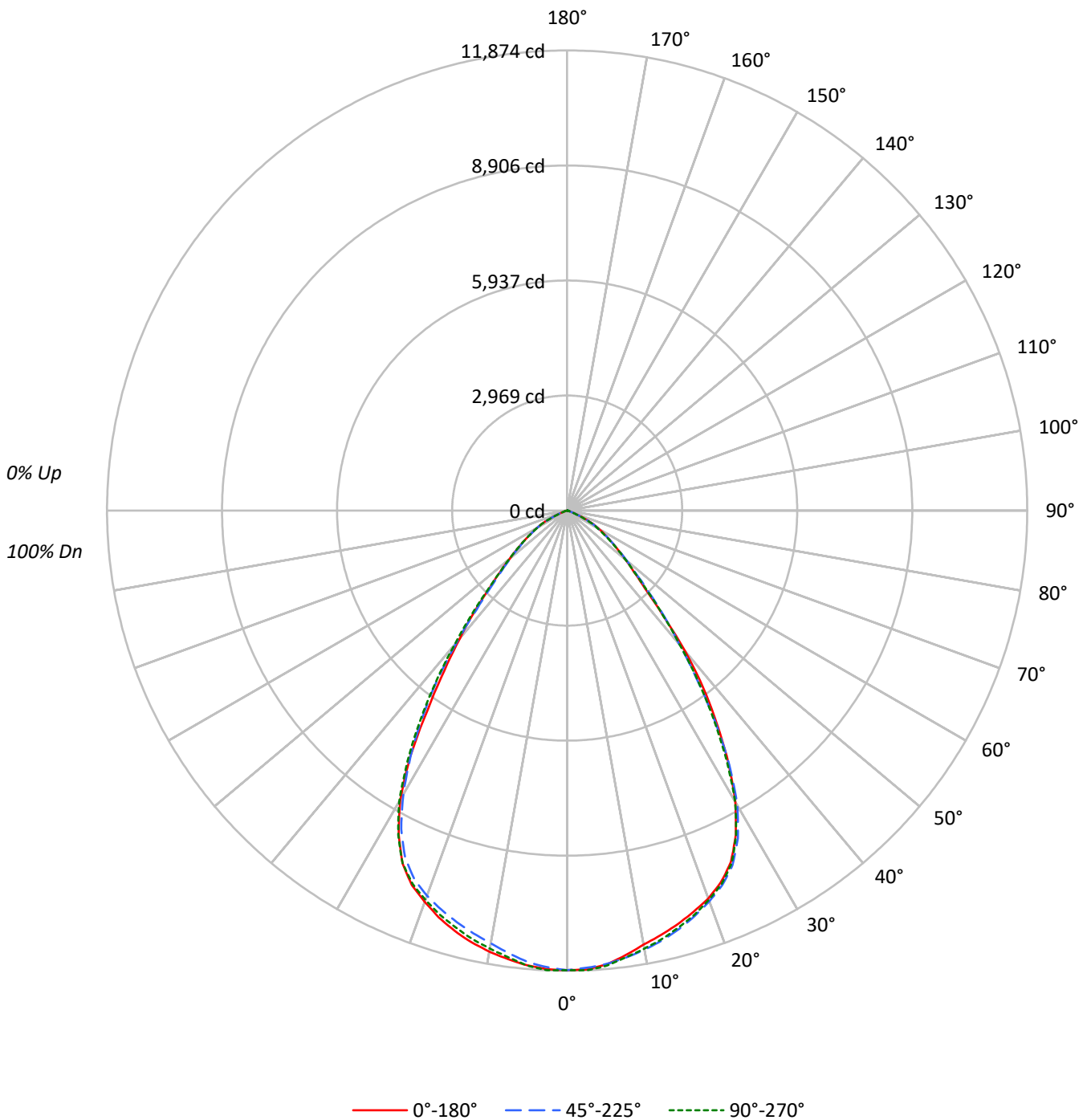
Input Watts (W): 223.3
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Luminous Intensity Polar Plot





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COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

RF	20				20				20				20				20	
RC	80				70				50				30				10	0
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	0
RCR																		
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100
1	112	109	106	104	110	107	104	102	103	101	99	99	97	96	96	94	93	91
2	105	100	95	91	103	98	93	90	94	91	88	91	88	86	89	86	84	82
3	99	91	85	80	97	90	84	80	87	82	78	84	80	77	82	79	76	74
4	92	83	77	72	90	82	76	71	80	75	70	78	73	70	76	72	69	67
5	87	77	70	65	85	76	69	64	74	68	64	72	67	63	70	66	62	61
6	81	71	64	59	80	70	63	58	68	62	58	67	61	57	65	61	57	55
7	76	65	58	53	75	65	58	53	63	57	53	62	57	53	61	56	52	51
8	72	61	54	49	71	60	54	49	59	53	49	58	52	48	57	52	48	47
9	68	57	50	45	67	56	50	45	55	49	45	54	49	45	53	48	45	43
10	64	53	46	42	63	52	46	42	52	46	42	51	45	41	50	45	41	40

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°
0°	Luminaire represents a point source (luminous area is zero).		
5°	No luminance values can be calculated.		
10°			
15°			
20°			
25°			
30°			
35°			
40°			
45°			
50°			
55°			
60°			
65°			
70°			
75°			
80°			
85°			



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1110.8	6.5
10°-20°	3131.6	18.5
20°-30°	4540.3	26.8
30°-40°	4081.2	24.1
40°-50°	2299.8	13.6
50°-60°	1225.3	7.2
60°-70°	489.7	2.9
70°-80°	65.2	0.4
80°-90°	15.4	0.1
90°-100°	0.0	0.0
100°-110°	0.0	0.0
110°-120°	0.0	0.0
120°-130°	0.0	0.0
130°-140°	0.0	0.0
140°-150°	0.0	0.0
150°-160°	0.0	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-30°	8782.8	51.8
0°-40°	12863.9	75.9
0°-60°	16389.0	96.6
0°-90°	16959.4	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	16959.4	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	11859	11859	11859	11859	11859	
5°	11753	11743	11786	11694	11780	###
15°	11043	11171	11132	10994	11225	3116
25°	10003	10096	10041	9886	10050	4540
35°	6756	6659	6605	6514	6275	4192
45°	2824	2977	2898	2762	2832	2320
55°	1374	1378	1349	1318	1338	1252
65°	528	504	467	454	472	523
75°	42	53	51	50	42	62
85°	2	12	6	18	4	6
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°
0°	11859.4	11859.4	11859.4	11859.4	11859.4	11859.4	11859.4	11859.4	11859.4
2.5°	11851.1	11826.0	11807.3	11842.8	11874.0	11788.5	11794.7	11832.3	11844.8
5°	11753.1	11730.2	11742.6	11771.9	11786.4	11679.1	11693.7	11757.3	11780.2
7.5°	11569.6	11587.3	11632.2	11669.6	11625.9	11499.8	11520.6	11630.0	11674.9
10°	11370.5	11412.2	11506.1	11549.8	11475.8	11314.1	11338.2	11485.1	11556.0
12.5°	11212.0	11257.9	11355.9	11389.3	11323.6	11149.4	11174.5	11326.7	11411.1
15°	11043.1	11084.8	11171.4	11198.5	11131.8	10971.2	10994.2	11140.1	11224.6
17.5°	10852.3	10888.9	10965.9	10991.0	10932.6	10762.6	10799.2	10934.7	11008.7
20°	10651.2	10677.3	10731.4	10746.0	10689.8	10561.5	10578.2	10694.9	10742.8
22.5°	10377.0	10410.3	10460.4	10476.0	10423.9	10283.2	10298.8	10413.4	10465.5
25°	10002.7	10051.8	10096.5	10116.3	10041.3	9854.7	9885.9	9983.9	10049.6
27.5°	9422.1	9461.7	9540.9	9543.0	9439.8	9245.9	9271.9	9398.0	9414.8
30°	8675.7	8712.1	8782.0	8766.3	8667.3	8436.9	8457.8	8580.7	8608.9
32.5°	7761.4	7774.9	7793.7	7788.5	7667.6	7559.1	7516.4	7531.0	7541.4
35°	6756.4	6780.4	6659.4	6593.7	6605.2	6614.7	6513.5	6363.3	6274.8
37.5°	5782.7	5668.1	5518.9	5467.8	5562.8	5594.1	5502.3	5278.2	5195.8
40°	4724.6	4622.4	4504.6	4514.0	4511.9	4533.8	4418.1	4335.8	4307.6
42.5°	3636.2	3637.2	3714.4	3661.2	3650.8	3498.6	3453.8	3499.6	3549.7
45°	2824.1	2917.9	2977.3	2961.7	2898.1	2761.5	2761.5	2841.9	2832.4
47.5°	2324.8	2358.1	2403.0	2399.8	2354.0	2253.8	2270.6	2325.8	2354.0
50°	1965.2	1979.7	2000.6	1982.8	1954.7	1892.1	1891.1	1929.6	1946.4
52.5°	1644.0	1652.4	1647.1	1637.8	1622.1	1588.7	1578.4	1610.7	1614.8
55°	1374.0	1389.6	1378.1	1352.1	1349.0	1318.7	1317.7	1343.8	1337.5
57.5°	1144.7	1129.0	1113.4	1091.5	1088.3	1079.0	1089.4	1093.6	1087.3
60°	952.9	953.9	923.6	902.8	900.7	887.2	901.8	913.3	913.3
62.5°	767.2	763.1	744.3	713.0	718.3	713.0	719.3	721.4	712.0
65°	528.5	529.5	503.6	466.0	467.0	462.8	453.5	468.1	472.3
67.5°	281.5	279.3	259.5	246.0	240.9	242.9	253.4	256.5	245.0
70°	153.2	148.0	152.2	137.6	140.7	135.6	140.7	149.1	145.9
72.5°	78.2	83.4	75.0	68.9	77.2	76.0	88.6	81.3	73.0
75°	41.7	44.8	53.2	49.1	51.1	49.1	50.1	46.9	41.7
77.5°	30.3	33.4	38.6	37.6	36.4	34.4	38.6	42.8	34.4
80°	17.8	21.9	24.0	28.1	25.0	28.1	32.3	26.1	20.8
82.5°	11.5	17.8	17.8	18.8	27.1	17.8	29.1	26.1	20.8
85°	2.1	3.2	12.5	7.3	6.3	18.8	17.8	13.5	4.2
87.5°	0.0	7.3	16.7	8.3	13.5	12.5	17.8	18.8	4.2
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)